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(54) Title: ADP-RIBOSYLATING TOXIN FROM LISTERIA MONOCYTOGENES

<i>E. coli</i> LT	KLYRADSRPPD	LYDHARGTQ	YDDGYVStSLSRSA	SPHPYEQVVSALGGI
<i>N. meningitidis</i>	FLYRGISCOQD	VYAHQIETG	YDGCYISStTDKEIA	PENPNERVVTIRAED
<i>S. coelicolor</i>	TLYRSDSRGPQVVEEGFHAKDVQNGQYDVEKYVLVNQPSFYVStSYDHDLY			HKWADQVVAFPGGI
<i>M. pneumoniae</i>	FVYRVDLRSPD	FFEHLSTN	GRSYFISStSETPTAA	TSFAYQREWTDGPI
<i>S. typhi</i>	FVYRVDSTPPD		SCSGGSStSRYIATT	TMMRLQREYVSTLSI
<i>S. paratyphi</i>	FVYRVDSTPPD		SCSGGSStSRYIATT	TMMRLQREYVSTLSI
<i>S. pyogenes</i>	VVYRYVYETFL		TKHSFMStTALKNGA	SAVPSSEVALLFPRGC
<i>L. monocytogenes</i>	ILYRGTSSEIL		EEKGMStTTISNOT	SETPEEAQVLFNIGQ

(57) Abstract: An ADP-ribosylating toxin from *Listeria monocytogenes* is disclosed, together with mutant toxins and uses therefor. There is only a low level of sequence identity between this toxin and known toxins such as the iota toxin from *Clostridium perfringens*.